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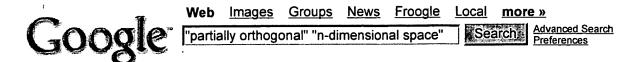Preferences

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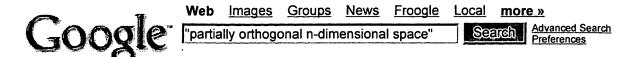
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                                                    Volume 3, Issue 5, Sept. 2004 Page(s):1405 - 1410
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                                                    Kassouf, M.; Leib, H.;
                                                    Wireless Communications and Networking Conference, 2004. WCNC. 2004 IEEE
                                                    Volume 1, 21-25 March 2004 Page(s):357 - 362 Vol.1

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                                                    Kassouf, M.; Leib, H.;
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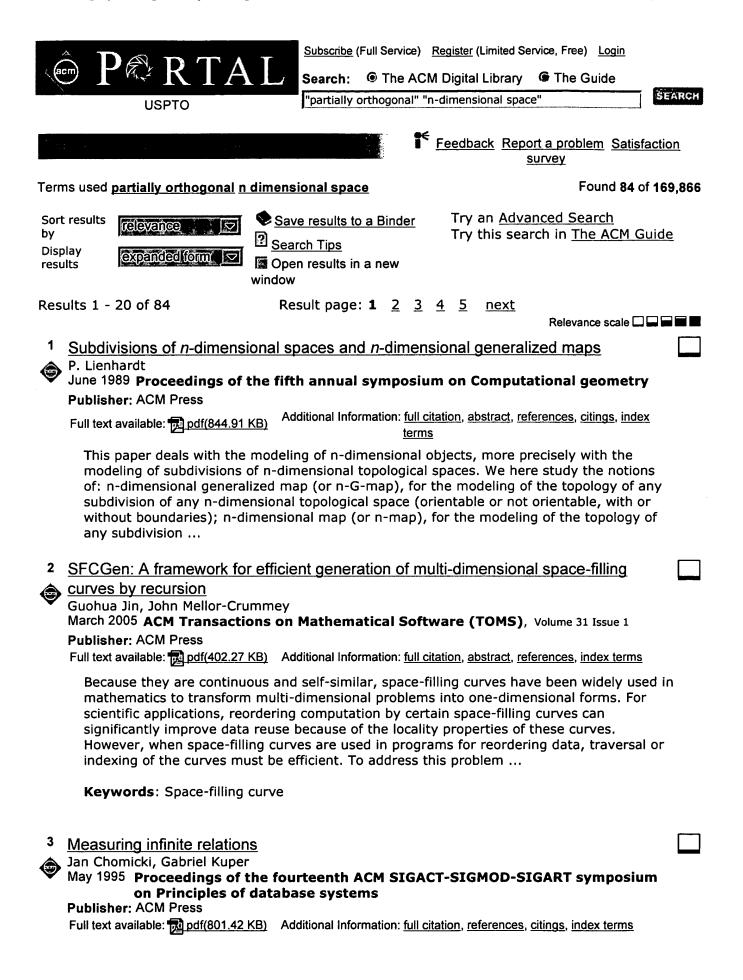
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**1**  Subdivisions of *n*-dimensional spaces and *n*-dimensional generalized maps          ☐
P. Lienhardt
June 1989 **Proceedings of the fifth annual symposium on Computational geometry**
**Publisher:** ACM Press

Full text available: **⬚** pdf(844.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

> This paper deals with the modeling of n-dimensional objects, more precisely with the modeling of subdivisions of n-dimensional topological spaces. We here study the notions of: n-dimensional generalized map (or n-G-map), for the modeling of the topology of any subdivision of any n-dimensional topological space (orientable or not orientable, with or without boundaries); n-dimensional map (or n-map), for the modeling of the topology of any subdivision ...

**2**  SFCGen: A framework for efficient generation of multi-dimensional space-filling          ☐
curves by recursion
Guohua Jin, John Mellor-Crummey
March 2005 **ACM Transactions on Mathematical Software (TOMS)**, Volume 31 Issue 1
**Publisher:** ACM Press

Full text available: **⬚** pdf(402.27 KB)   Additional Information: full citation, abstract, references, index terms

> Because they are continuous and self-similar, space-filling curves have been widely used in mathematics to transform multi-dimensional problems into one-dimensional forms. For scientific applications, reordering computation by certain space-filling curves can significantly improve data reuse because of the locality properties of these curves. However, when space-filling curves are used in programs for reordering data, traversal or indexing of the curves must be efficient. To address this problem ...

> **Keywords**: Space-filling curve

**3**  Measuring infinite relations          ☐
Jan Chomicki, Gabriel Kuper
May 1995 **Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
**Publisher:** ACM Press

Full text available: **⬚** pdf(801.42 KB)   Additional Information: full citation, references, citings, index terms

**4** Locally adaptive dimensionality reduction for indexing large time series databases

Kaushik Chakrabarti, Eamonn Keogh, Sharad Mehrotra, Michael Pazzani
June 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 2
**Publisher:** ACM Press

Full text available: 🗎 pdf(1.48 MB)      Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discrete ...

**Keywords**: Dimensionality reduction, indexing, time-series similarity retrieval

**5** A computer technique for displaying n-dimensional hyperobjects

A. Michael Noll
August 1967 **Communications of the ACM**, Volume 10 Issue 8
**Publisher:** ACM Press

Full text available: 🗎 pdf(626.61 KB)      Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A digital computer and automatic plotter have been used to generate three-dimensional stereoscopic movies of the three-dimensional parallel and perspective projections of four-dimensional hyperobjects rotating in four-dimensional space. The observed projections and their motions were a direct extension of three-dimensional experience, but no profound "feeling" or insight into the fourth spatial dimension was obtained. The technique can be generalized to n-dimensions and applied to any n-dim ...

**6** Efficient retrieval for browsing large image databases

Daniel Wu, Ambuj Singh, Divyakant Agrawal, Amr El Abbadi, Terence R. Smith
November 1996 **Proceedings of the fifth international conference on Information and knowledge management**
**Publisher:** ACM Press

Full text available: 🗎 pdf(879.45 KB)    Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

**7** On some generalizations of binary search

David Dobkin, R. J. Lipton
April 1974 **Proceedings of the sixth annual ACM symposium on Theory of computing**
**Publisher:** ACM Press

Full text available: 🗎 pdf(378.52 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Classic binary search is extended to multidimensional search problems. These new search methods can efficiently solve several important problems of computer science. Applications of these results to an open problem in the theory of computation are discussed yielding new insight into the Lba problem.

**8** Constructing good quality web page communities

Jingyu Hou, Yanchun Zhang
January 2002 **Australian Computer Science Communications , Proceedings of the**

**thirteenth Australasian conference on Database technologies - Volume 5 CRPITS '02**, Volume 24 Issue 2

**Publisher:** Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: 📄 pdf(1.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

World Wide Web is a rich source of information and continues to expand in size and complexity. To capture the features of the Web at a higher level to realise the information classification and efficient retrieval on the Web is becoming a challenge task. One natural way is to exploit the linkage information among the Web pages. Previous work such as HITS in this area is based on a set of retrieved pages to get a Web community that is a bunch of pages related to the query topics. Since the set of ...

**Keywords:** hyperlink analysis, singular value decomposition (SVD), web community, world wide web

**9** An expressive language for linear spatial database queries

Luc Vandeurzen, Marc Gyssens, Dirk Van Gucht

May 1998 **Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

**Publisher:** ACM Press

Full text available: 📄 pdf(1.44 MB)   Additional Information: full citation, references, citings, index terms

**10** Statistical estimators for aggregate relational algebra queries

Wen-Chi Hou, Gultekin Ozsoyoglu

December 1991 **ACM Transactions on Database Systems (TODS)**, Volume 16 Issue 4

**Publisher:** ACM Press

Full text available: 📄 pdf(3.09 MB)   Additional Information: full citation, references, citings, index terms, review

**Keywords:** relational algebra, sampling, selectivity, simple random sampling, statistical estimators

**11** Publish/subscribe: Meghdoot: content-based publish/subscribe over P2P networks

Abhishek Gupta, Ozgur D. Sahin, Divyakant Agrawal, Amr El Abbadi

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

**Publisher:** Springer-Verlag New York, Inc.

Full text available: 📄 pdf(296.58 KB)   Additional Information: full citation, abstract, references

Publish/Subscribe systems have become a prevalent model for delivering data from producers (publishers) to consumers (subscribers) distributed across wide-area networks while decoupling the publishers and the subscribers from each other. In this paper we present Meghdoot, which adapts content-based publish/subscribe systems to Distributed Hash Table based P2P networks in order to provide scalable content delivery mechanisms while maintaining the decoupling between the publishers and the subscrib ...

**12** Query processing: Implementing operations to navigate semantic star schemas

Alberto Abelló, José Samos, Fèlix Saltor

November 2003 **Proceedings of the 6th ACM international workshop on Data warehousing and OLAP**

**Publisher:** ACM Press
Full text available: 📄 pdf(193.82 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In the last years, lots of work have been devoted to multidimensional modeling, star shape schemas and OLAP operations. However, "drill-across" has not captured as much attention as other operations. This operation allows to change the subject of analysis keeping the same analysis space we were using to analyze another subject. It is assumed that this can be done if both subjects share exactly the same analysis dimensions. In this paper, besides the implementation of an algebraic set of operatio ...

**Keywords**: OLAP operations, SQL, drill-across, semantic relationships, star schema

**13** <u>Research sessions: selectivity: Dynamic multidimensional histograms</u>
Nitin Thaper, Sudipto Guha, Piotr Indyk, Nick Koudas
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**
**Publisher:** ACM Press

Full text available: 📄 pdf(1.36 MB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Histograms are a concise and flexible way to construct summary structures for large data sets. They have attracted a lot of attention in database research due to their utility in many areas, including query optimization, and approximate query answering. They are also a basic tool for data visualization and analysis.In this paper, we present a formal study of dynamic multidimensional histogram structures over continuous data streams. At the heart of our proposal is the use of a dynamic summary da ...

**14** <u>CASA: A computer algebra package for constructive algebraic geometry</u>
R. Gebauer, M. Kalkbrener, B. Wall, F. Winkler
June 1991 **Proceedings of the 1991 international symposium on Symbolic and algebraic computation**
**Publisher:** ACM Press
Full text available: 📄 pdf(541.34 KB)    Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

**15** <u>Rational hypersurface display</u>
Chanderjit L. Bajaj
February 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 1990 symposium on Interactive 3D graphics SI3D '90**, Volume 24 Issue 2
**Publisher:** ACM Press
Full text available: 📄 pdf(1.83 MB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Algorithms are presented for polygonalizing implicitly defined, quadric and cubic hypersurfaces in $n \ge 3$ dimensional space and furthermore displaying their projections in 3D. The method relies on initially constructing the rational parametric equations of the implicitly defined hypersurfaces, and then polygonalizing these hypersurfaces by an adaptive generalized curvature dependent scheme. The number of hyperpolygons used are optimal, in that they are the order of the minimum numbe ...

**16** <u>Locally adaptive dimensionality reduction for indexing large time series databases</u>
Eamonn Keogh, Kaushik Chakrabarti, Michael Pazzani, Sharad Mehrotra
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
**Publisher:** ACM Press
Full text available: 📄 pdf(300.08 KB)    Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Similarity search in large time series databases has attracted much research interest recently. It is a difficult problem because of the typically high dimensionality of the data.. The most promising solutions involve performing dimensionality reduction on the data, then indexing the reduced data with a multidimensional index structure. Many dimensionality reduction techniques have been proposed, including Singular Value Decomposition (SVD), the Discrete Fourier transform (DFT), and the Discr ...

**Keywords**: content-based retrieval, dimensionality reduction, indexing

**17** N-dimensional geometry using APL2

Charles Haspel, Alphonse Thomas Vasquez
May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future APL '85**, Volume 15 Issue 4
**Publisher:** ACM Press

Full text available: pdf(715.46 KB)    Additional Information: full citation, abstract, references, index terms

We describe a computational investigation of the geometry of fundamental domains and units in totally real algebraic number fields. Our approach requires the finding of convex hulls and fundamental domains in n-dimensional space and their display and manipulation. APL2 [API] and graphics are used for this purpose and appear to be essential for any practical pursuit of this approach. This paper presents a definition of the problem and an example solution including drawings of a fu ...

**18** An N-dimensional data structure in support of electronic data interchange (EDI) translation

Georges Brigham, Edward Shaw
July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91**, Volume 21 Issue 4

Full text available: pdf(761.14 KB)    Additional Information: full citation, abstract, references, citings, index terms

A method is described by which data in a database system are named using sets. The sets exist in an n-dimensional data space in which each axis represents a homogeneous set and all axes (sets) are orthogonal. Data are represented as mathematical functions of relationships between the sets. Data are named using an ordered combination of the names of the sets. An executable language is used to describe relationships between the sets and to query the database. This methodology lends itself quite co ...

**19** Special issue on ICML: Multiple instance learning of real valued data

Daniel R. Dooly, Qi Zhang, Sally A. Goldman, Robert A. Amar
March 2003 **The Journal of Machine Learning Research**, Volume 3
**Publisher:** MIT Press

Full text available: pdf(361.94 KB)    Additional Information: full citation, abstract, citings, index terms

The multiple-instance learning model has received much attention recently with a primary application area being that of drug activity prediction. Most prior work on multiple-instance learning has been for concept learning, yet for drug activity prediction, the label is a real-valued affinity measurement giving the binding strength. We present extensions of $k$-nearest neighbors ($k$-NN), Citation-$k$NN, and the diverse density algorithm for the real-valued setting and study their ...

**20** Software reuse strategies and component markets

T. Ravichandran, Marcus A. Rothenberger

August 2003 **Communications of the ACM**, Volume 46 Issue 8
**Publisher:** ACM Press
Full text available: pdf(106.94 KB)   Additional Information: full citation, abstract, references, citings, index
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Black-box reuse with component markets could be the silver bullet solution that makes
software reuse a reality, and advances software development to a robust industrial
process---but only if market makers address the growing pains plaguing this immature
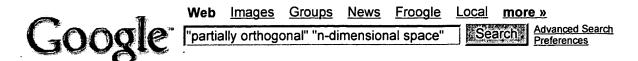industry.


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